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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/516,704	12/02/2004	Francoise Bono	SSL0093-1	5242
5487 ROSS J. OEHL	7590 06/28/200 LER	EXAMINER		
	NTIS U.S. LLC	JARRELL, NOBLE E		
1041 ROUTE 202-206 MAIL CODE: D303A BRIDGEWATER, NJ 08807			ART UNIT	PAPER NUMBER
			1609	
			NOTIFICATION DATE	DELIVERY MODE
			06/28/2007	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

USPatent.E-Filing@sanofi-aventis.com andrea.ryan@sanofi-aventis.com

		Application No.	Applicant(s)			
Office Action Summary		10/516,704	BONO ET AL.			
		Examiner	Art Unit			
		Noble Jarrell	1609			
Period fo	The MAILING DATE of this communication app	ears on the cover sheet with the	correspondence address			
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WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE in a sign of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. It period for reply is specified above, the maximum statutory period verse to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be to the state of the state	ON. imely filed m the mailing date of this communication. IED (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on 20 De	ecember 2004.				
·	This action is FINAL . 2b) ☐ This action is non-final.					
3)	,—					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims					
4)⊠	Claim(s) 1-10 and 14-28 is/are pending in the	application.				
•	4a) Of the above claim(s) is/are withdrawn from consideration.					
	Claim(s) is/are allowed.					
6)□	☐ Claim(s) is/are rejected.					
7)	Claim(s) is/are objected to.					
8)🖂	Claim(s) 1-10 and 14-28 are subject to restrict	on and/or election requirement.				
Applicati	on Papers					
9)□(The specification is objected to by the Examine	r				
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
•—	Applicant may not request that any objection to the					
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority u	ınder 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of:						
	1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No						
	3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
	de the attached detailed Office action for a list	or the certified copies not receiv	eu.			
Attachmen	t(s)					
	e of References Cited (PTO-892)	4) Interview Summar				
3) 🔲 Inforr	e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08)	Paper No(s)/Mail [5) Notice of Informal				
rape	r No(s)/Mail Date	6)				

DETAILED ACTION

1. Claims 1-13 are pending in the current application.

2. This is a National Stage of PCT/FR03/01685, filed June 5, 2003, which claims priority to FR2002-07001, filed June 7, 2002.

Election/Restrictions

3. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions, which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

Group I, Claims 1-6, 10, 14-21 drawn to compounds and compositions of formula I wherein variable R⁴ is pyridine.

Group II, Claims 1-6, 10, 14-21 drawn to compounds and compositions of formula I wherein variable R⁴ is pyrazine.

Group III, Claims 1-6, 10, 14-21 drawn to compounds and compositions of formula I wherein variable R⁴ is pyrimidine.

Group IV, Claims 1-6, 10, 14-21 drawn to compounds and compositions of formula I wherein variable R⁴ is pyridazine or pyridazinone.

Groups V-VIII, claims 7-9, drawn to methods of preparing compounds of groups I-IV, respectively.

Groups IX-XII, claims 22-28, drawn to a method of using compounds of groups I-IV, respectively.

The inventions listed as Groups I-IV do not relate to a single general inventive concept under PCT Rule 13.1 because under PCT Rule 13.2, they lack the same or corresponding special technical features for the

following reasons:

(f) "Markush practice" The situation involving the so-called Markush practice wherein a single claim defines alternatives (chemical or non-chemical) is also governed by PCT Rule 13.2. In this special situation, the requirement of a technical interrelationship and the same or corresponding special technical

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features as defined in PCT Rule 13.2, shall be considered to be met when the alternatives are of a similar

nature.

(i) When the Markush grouping is for alternatives of chemical compounds, they shall be regarded as

being of a similar nature where the following criteria are fulfilled:

(A) All alternatives have a common property or activity; and

(B) (1) A common structure is present, i.e., a significant structural element is

shared by all of the alternatives; or

(B) (2) In cases where the common structure cannot be the unifying criteria, all alternatives

belong to a recognized class of chemical compounds in the art to

which the invention pertains.

In paragraph (f)(i)(B)(1), above, the words "significant structural element is shared by all of the

alternatives" refer to cases where the compounds share a common chemical structure which occupies a

large portion of their structures, or in case the compounds have in common only a small portion of their

structures, the commonly shared structure constitutes a structurally distinctive portion in view of existing

prior art, and the common structure is essential to the common property or activity. The different

meanings for variable R4 and p result in many permutations of heterocyclic rings, different bonds between

atoms, resulting in compounds that have achieved a different status in the art, and thus are drawn to an

improper Markush group on the grounds of lack of a common nucleus. Thus lack of unity is apparent.

A preliminary search of a selected core gave numerous iterations, see below:

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=> d que sta
               STR
REP G2=(1-2) C
NODE ATTRIBUTES:
DEFAULI MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED
ECOUNT IS M4-X5 C M1-X2 N AT 22
GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 22
SIEREO ATTRIBUTES: NONE
             6 SEA FILE=REGISTRY SSS SAM L1
100.0% PROCESSED
                 371 ITERATIONS
                                                             6 ANSWERS
SEARCH TIME: 00.00.01
FULL FILE PROJECTIONS: ONLINE **COMPLETE**
                       BATCH **COMPLETE**
PROJECTED ITERATIONS:
                             6265 TO
                                         8575
PROJECTED ANSWERS:
                                6 TO
                                         265
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Thus it is clear that applicant's compound core is not applicant's contribution over the prior art and the commonly shared structure does not constitute a structurally distinctive portion in view of the existing prior art. Thus there is a lack of unity.

A prior art reference anticipating the claims with respect to one group would not render obvious the same claims with respect to another group. Should applicant traverse on the ground that the inventions are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103 (a) of the other invention.

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4. Inventions I-IV and IX-XII are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product. See MPEP § 806.05(h). In the instant case the piperidine ring can be made by hydrogenation of pyridine.

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- 5. Because these inventions are independent or distinct for the reasons given above and there would be a serious burden on the examiner if restriction is not required because the inventions require a different field of search (see MPEP § 808.02), restriction for examination purposes as indicated is proper.
- 6. Inventions V-VIII and I-IV are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make another and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the compounds can be used as tachykinin antagonists.
- 7. Because these inventions are independent or distinct for the reasons given above and there would be a serious burden on the examiner if restriction is not required because the inventions require a different field of search (see MPEP § 808.02), restriction for examination purposes as indicated is proper.
- 8. Applicant is advised that the reply to this requirement to be complete must include the invention to be examined. Applicant is advised that in addition to the election requirement a reply must include an identification all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election. If claims are added after the election, applicant must indicate which are readable upon the elected invention. The election of an invention may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point

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out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

9. Applicant is required under 35 U.S.C. 121 to elect a single disclosed species, even though this requirement is traversed. Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

If any one of group IX-XII is elected, a specific condition must be chosen as well.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which depend from or otherwise require all the limitations of an allowable generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

- 10. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).
- 11. The examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and the product claims are subsequently found allowable, withdrawn process claims that depend from or otherwise require all the limitations of the allowable product claim will be considered for rejoinder. All claims directed to a nonelected process invention must require all the limitations of an allowable product claim for that process invention to be rejoined.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for

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patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103 and 112. Until all claims to the elected product are found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowable product claim will not be rejoined. See MPEP § 821.04(b). Additionally, in order to retain the right to rejoinder in accordance with the above policy, applicant is advised that the process claims should be amended during prosecution to require the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder. Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

Conclusions

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Noble Jarrell whose telephone number is 571 (272) 9077. The examiner can normally be reached on Mon-Fri 7:30 A.M.-6:00 P.M EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cecilia Tsang can be reached on (571) 272-0562. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

JANET L. ANDRES
SUPERVISORY PATENT EXAMINER

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.